

CAMPUS MASTER PLAN -ATLANTA-

2004 Update

Version 6.1 (SUMMARY), September 15, 2004

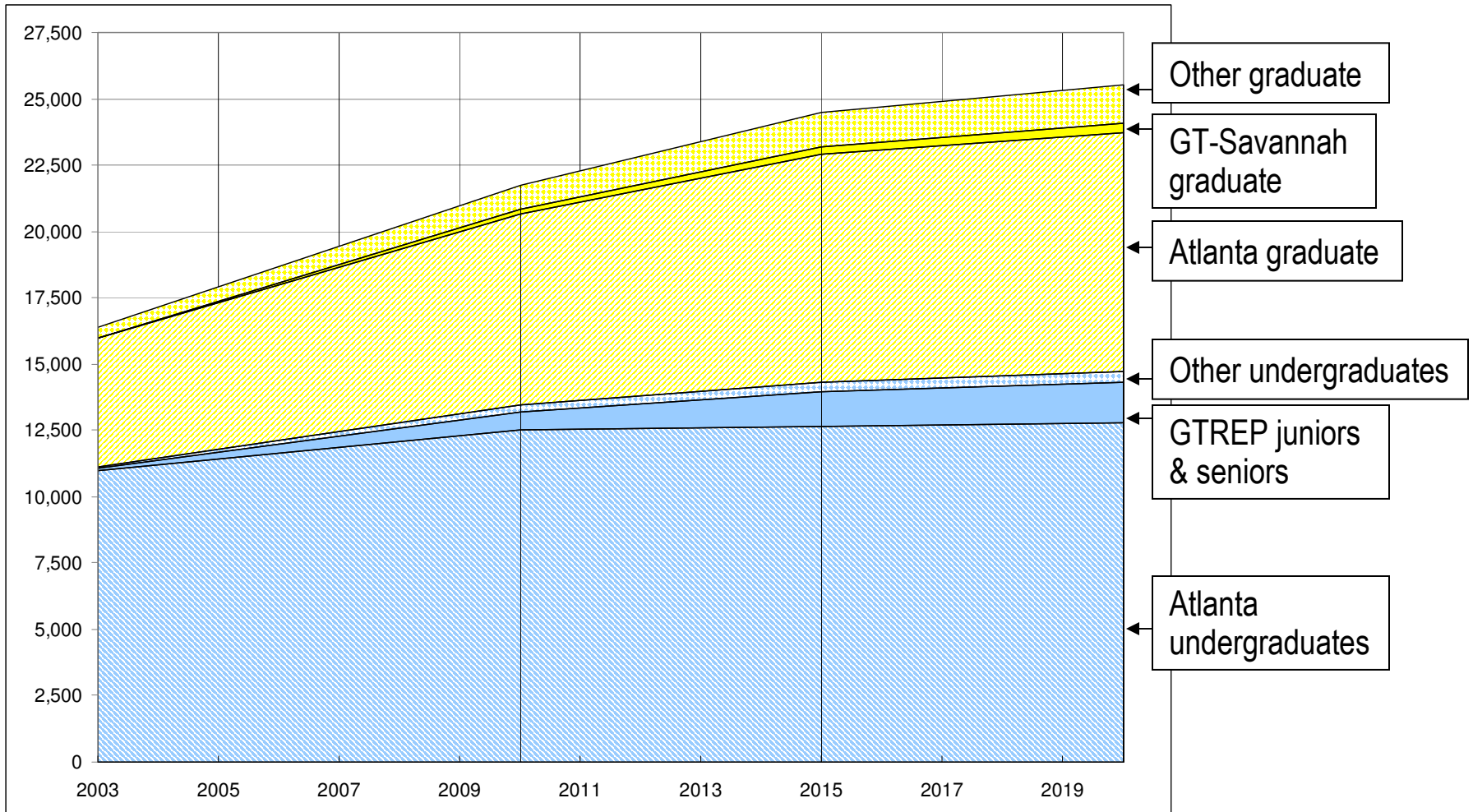
Strategic enrollment considerations

- State of Georgia initiatives
 - Telecom, nanotechnologies, cancer, etc
- USG strategic plans
 - A more educated Georgia, rising enrollments
 - Global, technological society
- GIT strategic plan initiatives
 - Educational demand for GIT disciplines and interdisciplinary initiatives
 - Research mission
 - Economic development/commercialization

Projecting enrollment to 2020

- Undergraduate
 - 12,000 students in Atlanta
 - Up to 4,000 GTREP students in SE Georgia
 - Another GTREP location?
 - France, Singapore campuses; others?
 - Distance learning
- Graduate
 - 10,000 students in Atlanta
 - 400 students at Georgia Tech-Savannah
 - France, Singapore campuses; others?
 - Distance learning

Envisioning enrollment strategies

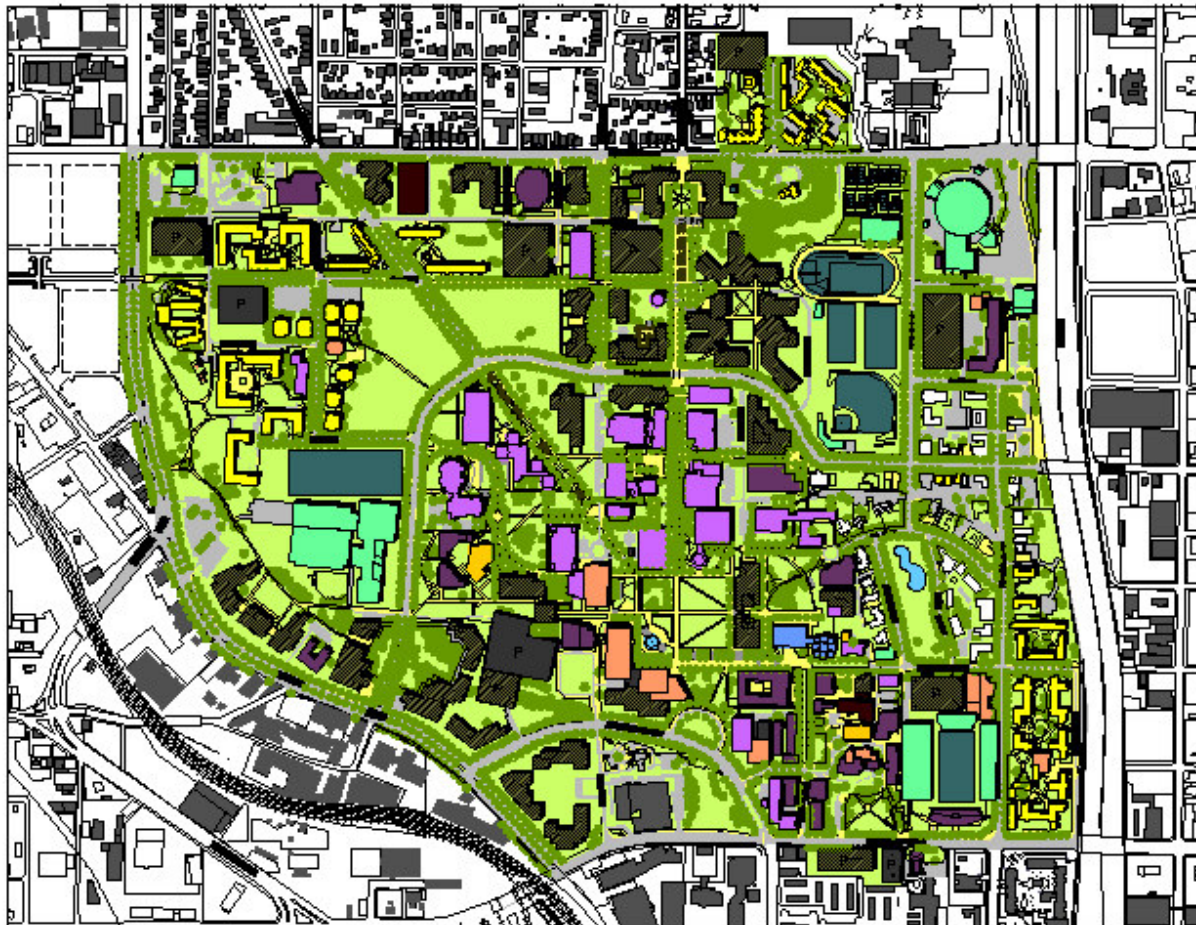


The 2004 Update: Objectives of this Exercise

- **Update to the 1997 Campus Master Plan**
 - Increased enrollments and research activities
 - Resultant increases in faculty and staff
 - Minimal additional property
 - Evolving strategic initiatives
 - Special opportunities
- **Focus on Specific Elements**
 - Sustainability
 - Accessibility
 - The ground plane
 - The area of interest
 - Collaborative planning with community constituencies
 - Carrying capacity for new facilities

1997 Overview	2004 Framework	Accessibility	Special Places	Ground Plane	Transportation	Athletics	Not Included
Since 1997	Facility Expansion	Sustainability	Area of Interest	Parking	Housing	Recreation	Acknowledgements

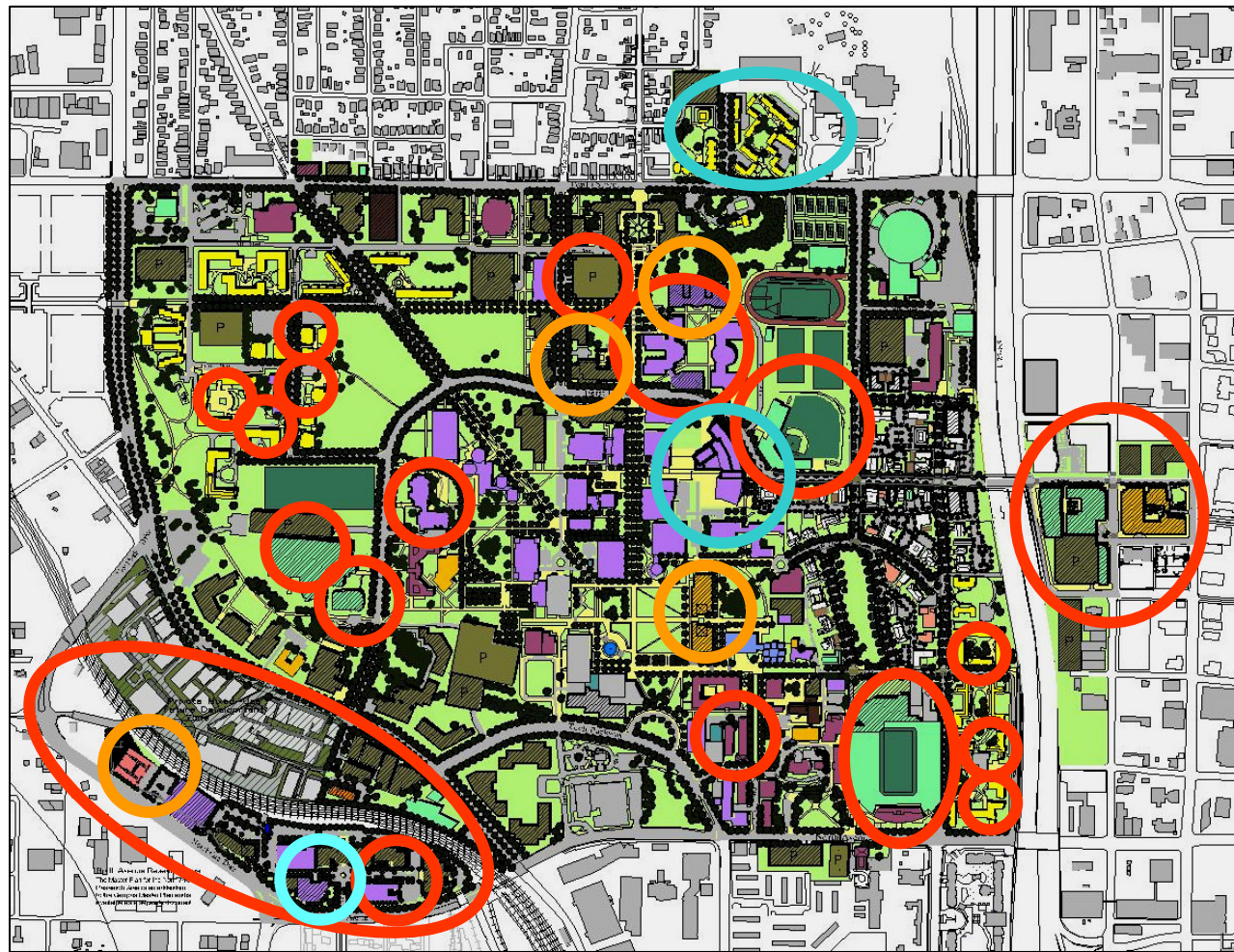
The 1997 Master Plan



- Dedicated pedestrian ways
- Increased green space
- Structured parking at the periphery
- Expand campus to the southwest
- New Building Sites:
Capacity for 3.2 million GSF

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The “2002” Master Plan (A Continual Updating of the CMP)



Construction & Major Renovation Since 1996

Under Construction

In Planning

\$500 million
and
2.7 million SF later...

1997 Overview

2004 Framework

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Education / Economic Development

- Enhancement of the campus environment.
 - Open spaces that encourage and support passive and active recreation.
 - Buildings and building complexes that foster trans-disciplinary interaction.
- Support strategic initiatives and goals.
 - Selected enrollment growth.
 - Academic excellence.
 - Technology-based economic development for Georgia.

Ecology

- Respect for and renewal of the urban forest and the tree canopy.
- Effective employment of “green building” technologies.
- Use of natural/native vegetation systems.
- Substantial reduction of storm water runoff.

Economy

- Effective use and stewardship of current physical resources.
 - Respect for and maintenance of the historic districts.
 - Ensuring infrastructure capacity for current and future facilities.
- Design guidelines that mandate flexibility, maintainability, and longevity.
- Accommodate changing conditions and opportunities.

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Conceptual Framework

Traditional campus

vs.

Knowledge-based campus

- Internally oriented.
- “Ivory Tower” isolated and apart from the community.
- “Silos” of knowledge.
- Single-purpose facilities.
- Traditional campus and facilities.
- “Monastic Lifestyle”.
- Consumer of resources.
- Uses traditional funding sources and project delivery methods.

- Internally and externally oriented.
- Engaged with the community.
- Trans-disciplinary teaching and learning community.
- Multi-functional / interdisciplinary and adaptable facilities.
- Distributed activities for movement of people and electronic communications.
- Study / Play – Live / Work community.
- Steward of resources.
- Leverages partnerships and funding sources to achieve the best, most cost-effective facilities.

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Space Needs Projections: Total Campus

Current Campus Space

(Atlanta Campus, December, 2003)

<u>Principal Use of Buildings</u>	<u>Gross Area (GSF)</u>
Academic Instruction and Research	5,967,041
Athletic Association	352,779
<u>Student Support & Auxiliaries</u>	<u>4,318,182</u>
Institute Total	10,638,002
Under Construction/In-Planning*	<u>725,000</u>
	11,363,002

Projected Campus Space

(assume year 2020)





<u>Principal Use of Buildings</u>	<u>Gross Area (GSF)</u>
Academic Instruction and Research	10,000,000
Athletic Association	425,000
<u>Student Support & Auxiliaries</u>	<u>5,500,000</u>
Institute Total	16,000,000

* Necessary to meet current workload demand.

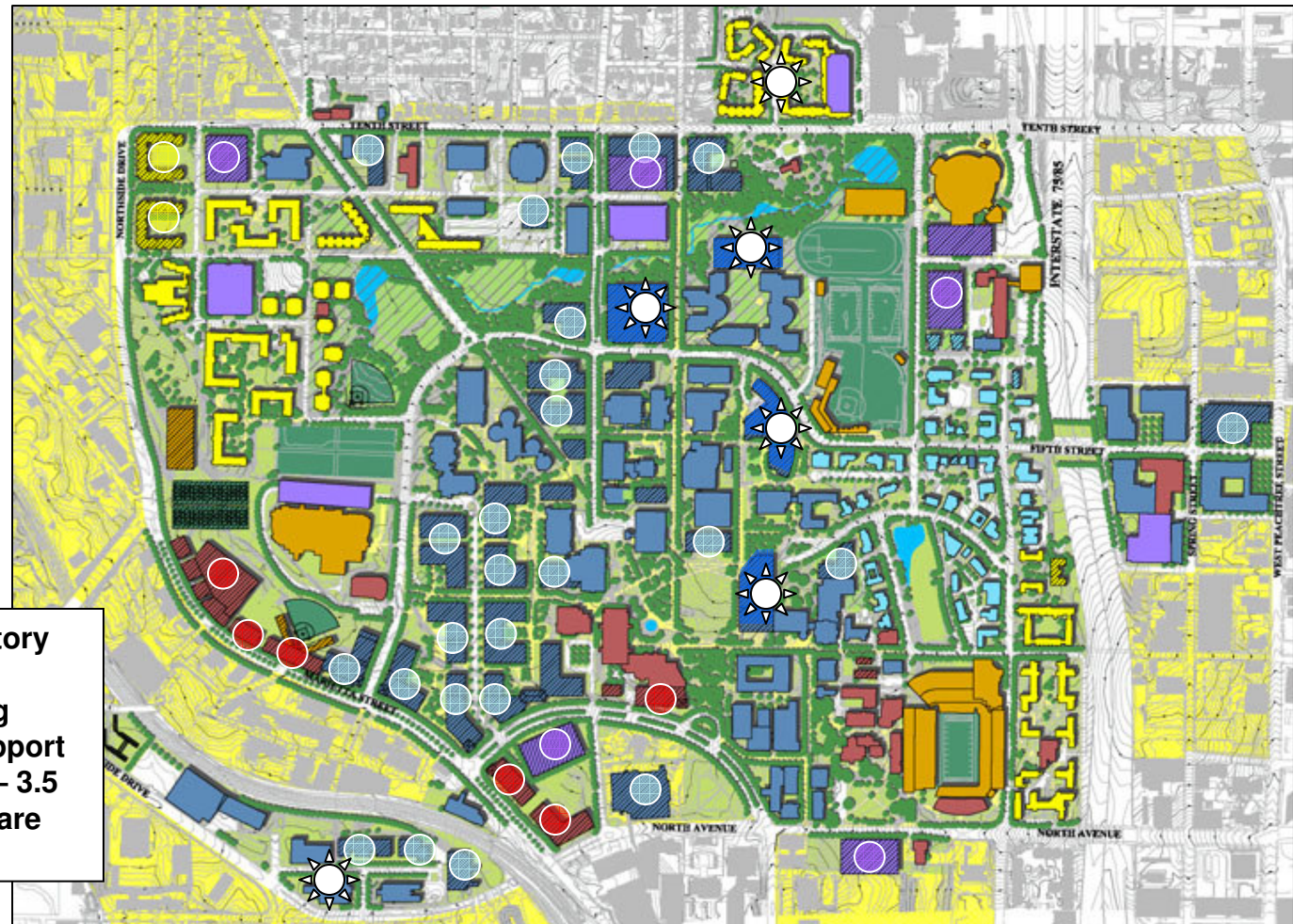
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Potential New Buildings

 Under construction / in planning




 Proposed building sites

Assuming 3 – 4 story buildings, the proposed building footprints will support an additional 3.0 – 3.5 million gross square feet.



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Accessibility Issues

- The macro planning is for mobility impairments; other disabilities are managed more at the micro level.
- The constituencies of concern are employees and visitors as well as students.
- Of significant influence in planning: *handicapped accessible or handicapped friendly.*

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Sustainability: Key components

- **Facility Design**

- Energy Conservation
- Indoor Air Quality
- Selection of Materials
- Construction Methods
- Guidelines & Standards

- **Operations**

- Energy Management
- Alternative Fuels
- Reduce/Reuse/Recycle
- Thoughtful Renovation

- **Landscape Design & Management**

- Native Vegetation
- Increased Tree Canopy
- Reduced Impervious Surface
- Performance Landscapes
- Storm Water Management

Goals

- *Reduced Hydrocarbon Emissions*
- *Reduced Material Consumption*
- *Reduced Water Consumption*
- *Reduced Storm Water Runoff*

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"Special Places"

The
Eco-Commons

The
"Glade"

Portions of campus that, because of historic, aesthetic, and/or ecologic significance will be preserved in perpetuity.

The
Campus
Green

The
Mayer
Garden

The
"Quad"

The
Historic
District

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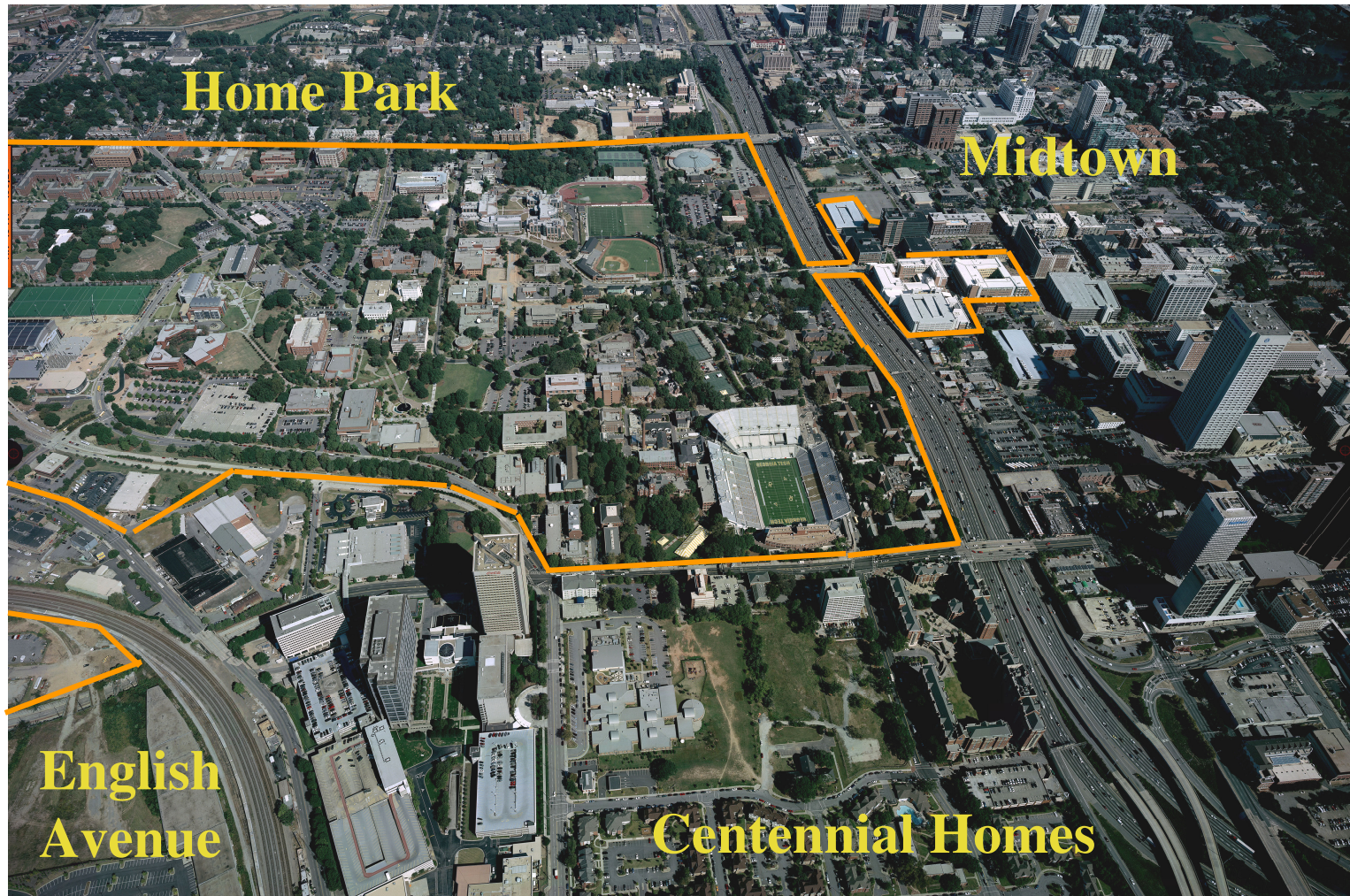
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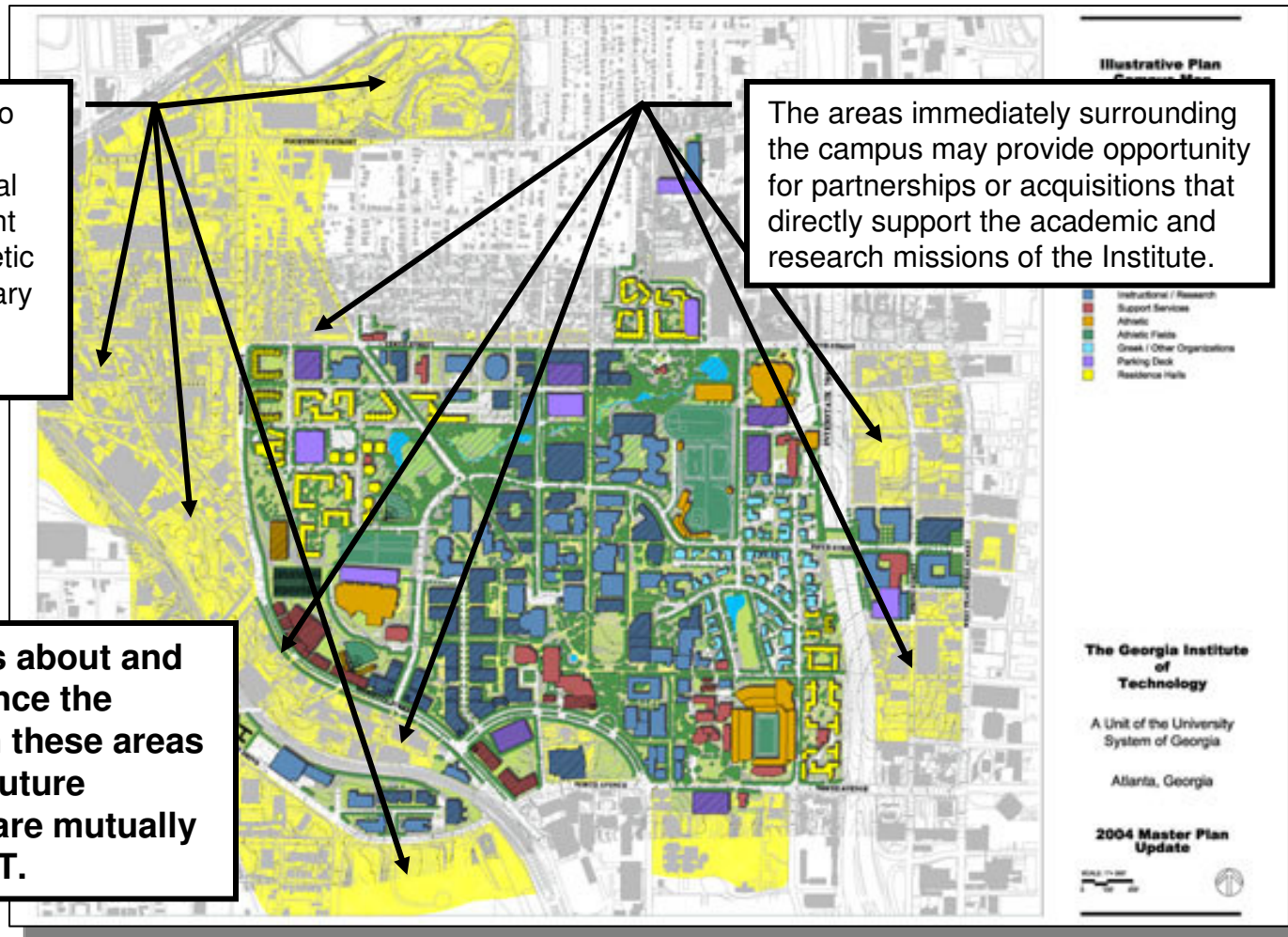


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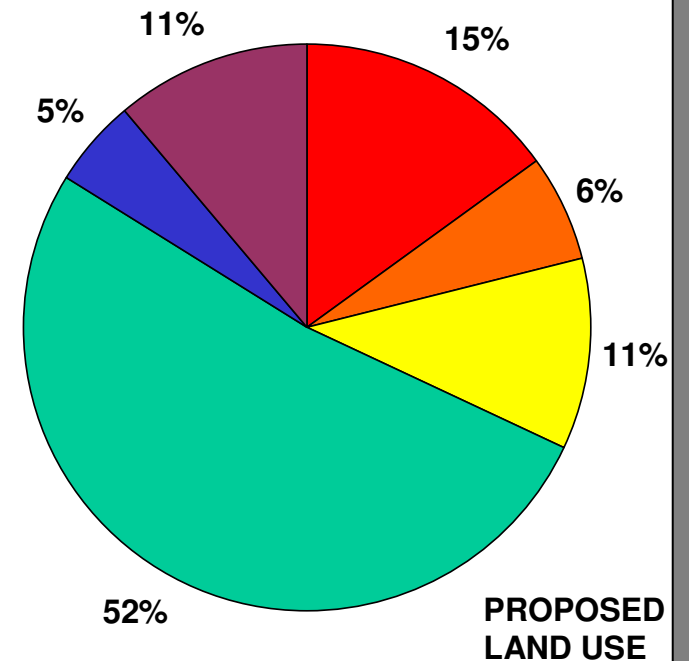
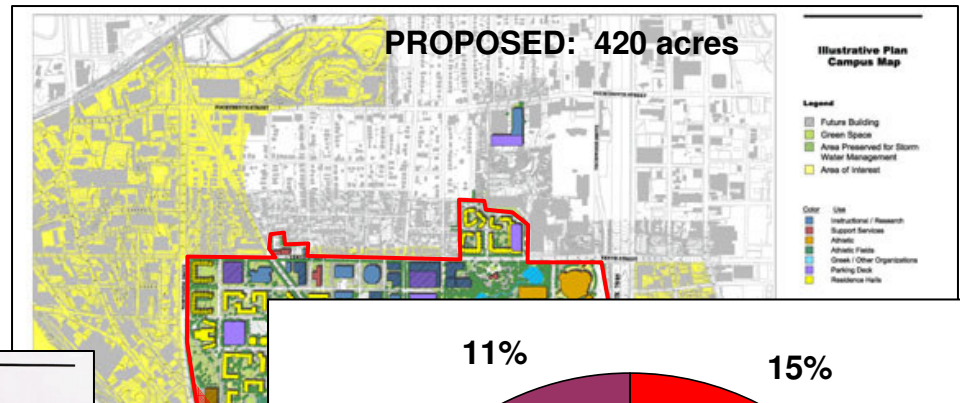
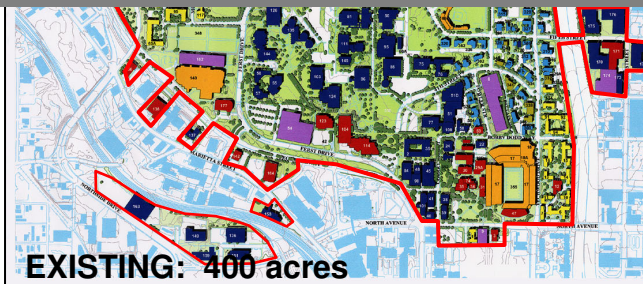
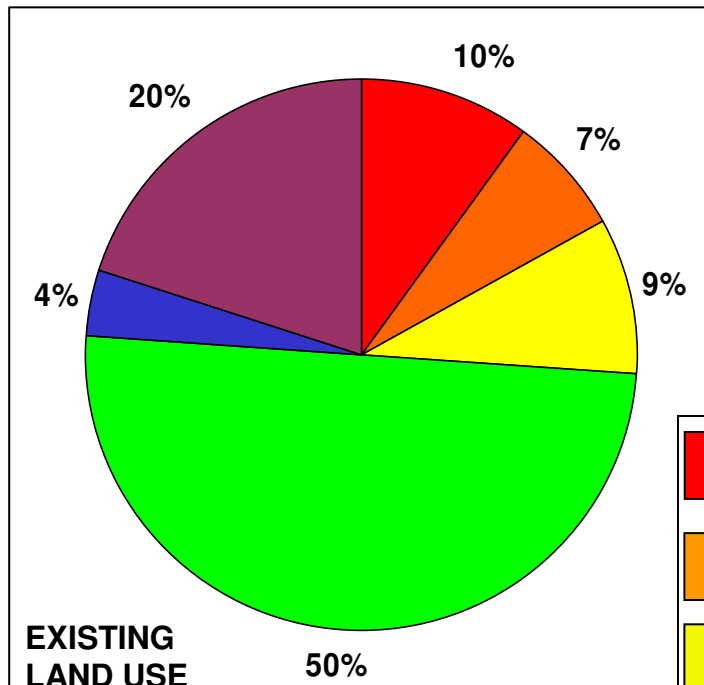
Areas not adjacent to the campus are important as potential sites for development by entities sympathetic with or complementary to the mission of Georgia Tech.

GIT really cares about and wants to influence the development in these areas to ensure that future developments are mutually beneficial to GIT.



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Land Use



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THE CAMPUS MASTER PLAN

<http://www.space.gatech.edu/masterplan.htm>

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